

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A magnet system for a relay comprising:
 - a core partially enclosed by a coil;
 - a yoke having a first yoke leg attached to a first end of the core and a second yoke leg extending parallel to the core, the second yoke leg having an armature mounting portion formed on an upper side of the second yoke leg remote from the coil;
 - a pole having a first pole leg connected to a second end of the core and a second pole leg extending parallel to the core, the second pole leg having an upper surface substantially aligned with the armature mounting portion such that when an armature is mounted on the armature mounting portion, a working air gap is formed between a coil-side armature face and the upper surface of the second pole leg;
 - a fixed contact carrier with a fixed contact, the fixed contact carrier having side portions that hold the fixed contact carrier in pockets of the coil; and

the magnet system is extrusion coated with a plastic material, the coil, the yoke, the pole, and the fixed contact carrier being embedded in the plastic material.
2. (previously presented) The magnet system according to claim 1, wherein the upper surface of the second pole leg includes a crowned pole face.
3. (previously presented) The magnet system according to claim 1, wherein the yoke is L-shaped.
4. (previously presented) The magnet system according to claim 1, wherein the pole is L-shaped.

5. (previously presented) The magnet system according to claim 1, wherein the first pole leg is connected to the core by a U-shaped recess.
6. (previously presented) The magnet system according to claim 1, wherein an edge of the armature mounting portion and an edge of the second pole leg are positioned such that a gap is formed therebetween that is bridged by the armature.
7. (previously presented) The magnet system according to claim 1, wherein the fixed contact arranged on the fixed contact carrier is substantially aligned with the second pole leg.
8. (previously presented) The magnet system according to claim 7, wherein the fixed contact carrier is offset in a direction of the core.
9. (previously presented) The magnet system according to claim 1, wherein the magnet system is mounted on a coil body.
10. (cancelled)
11. (currently amended) An electromagnetic relay comprising:
 - a magnet system having a core body with a core partially enclosed by a coil;
 - a yoke having a first yoke leg attached to a first end of the core and a second yoke leg extending parallel to the core having an armature mounting portion;
 - a pole having a first pole leg connected to a second end of the core and a second pole leg extending parallel to the core; the magnet system having a fixed contact arranged on a fixed contact carrier substantially aligned with the second pole leg, the fixed contact carrier being offset in a direction of the core and arranged in the coil body, the fixed contact carrier having side portions that hold the fixed contact carrier in pockets of the coil; and
 - the magnet system is extrusion coated with a plastic material, the coil, the yoke, the pole, and the fixed contact carrier being embedded in the plastic material.

12. (previously presented) The electromagnetic relay according to claim 11, wherein a sheet-like armature is pivotally mounted on the armature mounting portion, the armature having a spring contact with a switching contact positioned adjacent to the fixed contact.

13. (previously presented) The electromagnetic relay according to 11, wherein the fixed contact carrier is held by side portions in pockets of a side arm of the coil body.

14. (previously presented) The electromagnetic relay according to claim 13, wherein the pole is held between the side arm and a first flange of the coil body.

15. (previously presented) The electromagnetic relay according to claim 12, wherein a free end of the spring contact is movably received between injection molded webs.

16. (previously presented) The electromagnetic relay according to claim 11, wherein the second pole leg has an upper surface substantially aligned with the armature mounting portion.

17. (previously presented) The electromagnetic relay according to claim 16, wherein an edge of the armature mounting portion and an edge of the second pole leg are positioned such that a gap is formed therebetween that is bridged by the armature.

18. (previously presented) The electromagnetic relay according to claim 12, wherein the spring contact is bent such that the switching contact engages the fixed contact before the armature engages an upper surface of the second pole leg.

19. (currently amended) A method for producing a magnet system for an electromagnetic relay, comprising the steps of:

inserting a magnet system into an injection mold;

allocating a face of an armature mounting portion, a pole leg and a fixed contact carrier having side portions that hold the fixed contact carrier in pockets of the coil, at complementary reference planes in the injection mold; and

pressing the face of the armature mounting portion, the pole leg and the fixed contact carrier into the associated reference planes to achieve a desired size graduation between the faces.

20. (previously presented) The method of claim 19, further comprising the step of injection molding webs on opposing sides of the fixed contact carrier.